

General

Title

Sarcoma: proportion of patients with extremity sarcoma who undergo surgical resection with curative intent where R0 resection is achieved.

Source(s)

NHS Scotland, Scottish Cancer Taskforce. Sarcoma clinical quality performance indicators. Edinburgh (Scotland): Healthcare Improvement Scotland; 2016 May 20. 33 p. [30 references]

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Outcome

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the proportion of patients with extremity sarcoma who undergo surgical resection with curative intent where R0 resection is achieved.

Note from the National Quality Measures Clearinghouse: This measure is part of the Cancer Quality Performance Indicators (QPIs) collection. For more information, including a complete list of QPI measure sets, please visit the [Healthcare Improvement Scotland Web site](#)

Rationale

The surgical margin achieved within surgical resection impacts on local recurrence rates and survival of patients. To ensure a patient has low recurrence rates surgeons should completely excise the tumour to achieve R0 surgical resection to ensure the surgical margin is clear of microscopic disease (Grimer et al., 2010; Gerrand et al., 2001; Paszat et al., 2002).

It is important that surgical procedures are planned in advance of surgery (Paszat et al., 2002). This will

allow for the necessary treatment planning to take place before the initiation of treatment.

Evidence for Rationale

Gerrand CH, Wunder JS, Kandel RA, O'Sullivan B, Catton CN, Bell RS, Griffin AM, Davis AM. Classification of positive margins after resection of soft-tissue sarcoma of the limb predicts the risk of local recurrence. J Bone Joint Surg Br. 2001 Nov;83(8):1149-55. [PubMed](#)

Grimer R, Judson I, Peake D, Seddon B. Guidelines for the management of soft tissue sarcomas. Sarcoma. 2010;2010:506182. [PubMed](#)

NHS Scotland, Scottish Cancer Taskforce. Sarcoma clinical quality performance indicators. Edinburgh (Scotland): Healthcare Improvement Scotland; 2016 May 20. 33 p. [30 references]

Paszat L, O'Sullivan B, Bell R, Bramwell V, Groome P, Mackillop W, Bartfay E, Holowaty E. Processes and outcomes of care for soft tissue sarcoma of the extremities. Sarcoma. 2002;6(1):19-26. [PubMed](#)

Primary Health Components

Extremity sarcoma; R0 surgical resection; curative intent

Denominator Description

All patients with extremity sarcoma who undergo surgical resection with curative intent (see the related "Denominator Inclusions/Exclusions" field)

Numerator Description

Number of patients with extremity sarcoma who undergo surgical resection with curative intent where R0 resection is achieved (see the related "Numerator Inclusions/Exclusions" field)

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

One or more research studies published in a National Library of Medicine (NLM) indexed, peer-reviewed journal

Additional Information Supporting Need for the Measure

Unspecified

Extent of Measure Testing

The collection of data is piloted on a small number of patient records using a paper data collection form produced by Information Services Division (ISD). The aim is to identify any anomalies or difficulties with data collection prior to full implementation. At least one NHS board in each Regional Cancer Network participates in the pilot.

Evidence for Extent of Measure Testing

NHS Scotland. National cancer quality performance indicators: overview of development process. Edinburgh (Scotland): NHS Scotland; 2012 Dec. 7 p.

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Hospital Inpatient

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Single Health Care Delivery or Public Health Organizations

Statement of Acceptable Minimum Sample Size

Unspecified

Target Population Age

Unspecified

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

Better Care

National Quality Strategy Priority

Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Getting Better

Living with Illness

IOM Domain

Effectiveness

Data Collection for the Measure

Case Finding Period

Unspecified

Denominator Sampling Frame

Patients associated with provider

Denominator (Index) Event or Characteristic

Clinical Condition

Therapeutic Intervention

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

All patients with extremity sarcoma who undergo surgical resection with curative intent

Exclusions

Patients with cutaneous sarcomas

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

Number of patients with extremity sarcoma who undergo surgical resection with curative intent where R0* resection is achieved

**R0 resection* is a surgical resection where surgical margins are clear of microscopic disease.

Exclusions

Patients with cutaneous sarcomas

Numerator Search Strategy

Fixed time period or point in time

Data Source

Electronic health/medical record

Paper medical record

Type of Health State

Physiologic Health State (Intermediate Outcome)

Instruments Used and/or Associated with the Measure

Unspecified

Computation of the Measure

Measure Specifies Disaggregation

Does not apply to this measure

Scoring

Rate/Proportion

Interpretation of Score

Desired value is a higher score

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Prescriptive Standard

Target: 85%

The tolerance within this target is designed to account for situations where it is agreed due to anatomical constraints a planned positive surgical margin is acceptable.

Evidence for Prescriptive Standard

NHS Scotland, Scottish Cancer Taskforce. Sarcoma clinical quality performance indicators. Edinburgh (Scotland): Healthcare Improvement Scotland; 2016 May 20. 33 p. [30 references]

Identifying Information

Original Title

QPI 4 – surgical margins.

Measure Collection Name

Cancer Quality Performance Indicators (QPIs)

Measure Set Name

Sarcoma

Submitter

NHS Scotland - National Government Agency [Non-U.S.]

Scottish Cancer Taskforce - National Government Agency [Non-U.S.]

Developer

NHS Scotland - National Government Agency [Non-U.S.]

Funding Source(s)

Scottish Government

Composition of the Group that Developed the Measure

Sarcoma QPI Development Group

Financial Disclosures/Other Potential Conflicts of Interest

Unspecified

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2016 May

Measure Maintenance

The Cancer Quality Performance Indicators (QPIs) will be kept under regular review and be responsive to changes in clinical practice and emerging evidence. Formal reviews are conducted every 3 years and baseline checks each year.

Date of Next Anticipated Revision

2017 Dec

Measure Status

This is the current release of the measure.

Measure Availability

Source document available from the [Healthcare Improvement Scotland Web site](#) .

For more information, contact the Healthcare Improvement Scotland at Gyle Square, 1 South Gyle Crescent, Edinburgh, Scotland EH12 9EB; Phone: 0131 623 4300; E-mail: comments.his@nhs.net; Web site: www.healthcareimprovementscotland.org/ .

Companion Documents

The following is available:

NHS Scotland. National cancer quality performance indicators: overview of development process.

NQMC Status

This NQMC summary was completed by ECRI Institute on May 16, 2017.

Copyright Statement

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Production

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